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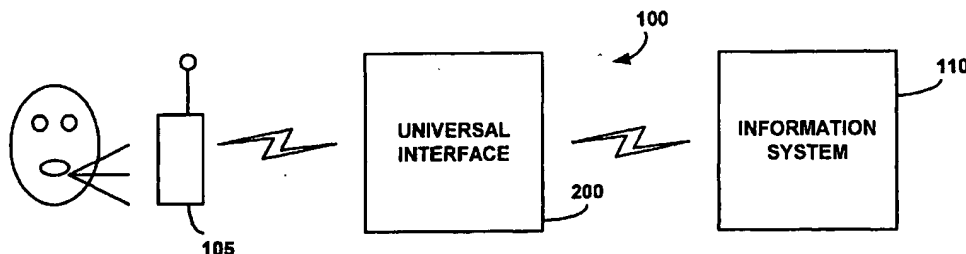
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- Published:
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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: UNIVERSAL INTERFACE FOR VOICE ACTIVATED ACCESS TO MULTIPLE INFORMATION PROVIDERS



(57) Abstract: The present invention relates to an interface for accessing data and, more particularly, to a universal interface for accessing data from one or more information systems using a wireless telephone (Fig. 1). The universal interface (200) presents the user with an abstraction of a unified mailbox (fax, e-mail, voice mail, among others) and advanced web services from a wireless telephone. It does not lock the individual into one information provider, and allows the user to access multiple information providers with a single telephone call. It also provides a simple system that acts as a conduit, translating an individual's spoken or tone commands into commands recognizable by the various information systems (110).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/01547

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04M 3/493

US CL : 379/88.04, 88.16, 88.17; 455/557; 704/9

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : Please See Extra Sheet.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,608,786 A (GORDON) 04 March 1997, abstract, Fig. 1, col. 2, lines 44-65, col. 4, lines 45-52, col. 5, lines 9-14, col. 6, lines 10-13, col. 6, line 63-col. 7, line 3, col. 7, lines 18-33, col. 8, lines 18-20, col. 9, lines 18-23, lines 51-53, and col. 11, line 16.	60 --- 1-59
Y	US 5,799,063 A (KRANE) 25 August, 1998, abstract, Fig. 1, col. 5, lines 11-13, lines 39-51, and col. 5, line 62-col. 6, line 3.	1-59
Y	US 5,845,282 A (ALLEY et al.) 01 December 1998, col. 2, lines 1-16, col. 4, lines 45-50, col. 10, lines 9-13, and lines 58-67.	11, 12, 31, 32, 47, 48



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"N" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document published on or after the international filing date	"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"X" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer KRISTA ZELE <i>James R. Matthews</i> Telephone No. (703) 305-4701

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/01547

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,524,137 A (RHEE) 04 June 1996, abstract and Fig. 4.	18, 20, 21, 37, 39, 40, 53, 55, 56
Y	US 5,297,040 A (HU) 22 March 1994, col. 13, line 55-col. 14, line 2.	19, 38, 54
Y	US 5,689,616 A (LI) 18 November 1997, abstract.	21, 40, 56
A	US 4,882,681 A (BROTZ) 21 November 1989.	1-60
A	US 5,268,839 A (KAJI) 07 December 1993.	1-60
A	US 5,633,916 A (GOLDHAGEN et al.) 27 May 1997.	1-60
Y	US 5,647,002 A (BRUNSON) 08 July 1997, abstract and Fig. 1.	11, 12, 31, 32, 47, 48
A	US 5,666,400 A (MCALLISTER et al.) 09 September 1997.	1-60
A	US 5,675,507 A (BOBO, II) 07 October 1997.	1-60
A	US 5,708,804 A (GOODWIN et al.) 13 January 1998.	1-60
A	US 5,790,974 A (TOGNAZZINI) 04 August 1998.	1-60
A	US 5,737,395 A (IRRIBARREN) 07 April 1998.	1-60
A	US 5,822,404 A (CAVE) 13 October 1998.	1-60
A	US 5,859,898 A (CHECCO) 12 January 1999.	1-60
Y,P	US 5,875,422 A (ESLAMBOLCHI et al.) 23 February 1999, abstract and Fig. 1.	20, 21, 39, 40, 55, 56
A,P	US 5,884,262 A (WISE et al.) 16 March 1999.	1-60
Y,P	US 5,915,001 A (UPPALURU) 22 June 1999, abstract.	1-59
A,P	US 5,953,393 A (CULBRETH et al.) 14 September 1999.	1-60
Y,P	US 5,960,113 A (EVEN et al.) 28 September 1999, abstract.	20, 21, 39, 40, 55, 56
A,P	US 5,960,406 A (RASANSKY et al.) 28 September 1999.	1-60
A,P	US 5,991,366 A (HENRICK et al.) 23 November 1999.	1-60

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INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/01547

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,P	US 5,999,611 A (TATCHELL et al.) 07 December 1999, abstract.	1-59
Y,P	US 6,016,478 A (ZHANG et al.) 18 January 2000, abstract.	11, 12, 31, 32, 47, 48
Y,P	US 6,034,621 A (KAUFMAN) 07 March 2000, abstract.	11, 12, 31, 32, 47, 48
A	COLE, B. Lotus hooks Organizer to the Web, Network World, October 1996, Vol. 13, Iss. 42, Pg. 14.	1-60
A	GONZALEZ, D. Introducing ICAP as a Calendaring Standard, ENT, June 1998, Vol. 3, Iss. 10, Pg. 60.	1-60

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International application No
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B. FIELDS SEARCHED

Minimum documentation searched

Classification System: U.S:

379/67.1, 88.01, 88.04, 88.05, 88.06, 88.13, 88.14, 88.15, 88.16, 88.17, 88.22, 88.23, 88.24, 88.25, 93.12, 704/1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 200, 231, 249, 251, 258, 275, 277, 370/214, 351, 352, 353, 354, 355, 356, 455/130, 340, 557, 709/200, 201, 202, 204, 206, 217, 218, 219

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-24, drawn to a universal information access system using a router.

Group II, claim(s) 25-40, drawn to a universal information access system using periodic access.

Group III, claim(s) 41-60, drawn to a universal information access system where the information system to be accessed is determined after a speech command command from the user.

The inventions listed as Groups I-III do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Unity of invention has to be considered in the first place only in relation to the independent claims in an international application and not the dependent claims. The independent claims do not share certain special technical features. For example, the independent claim 41 of Group III recites the unique special technical feature of determining the information system to be accessed after the user's spoken command. However, the independent claim 25 of Group II recites the unique special technical feature for allowing the user to periodically access the information system. Finally, the independent claim 1 of Group I recites the unique special technical feature of a router coupled to the interface module.